

CLAIMS

1 1. A method for reducing subjective artifacts in a video image, comprising the steps
2 of:

3 receiving supplemental information that includes at least one parameter that specifies an
4 attribute of comfort noise for addition to an image;

5 generating the temporally correlated noise in accordance; and

6 adding temporally correlated noise to the image to hide artifacts.
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1 2. The method according to claim 1 further comprising the step of generating the
2 temporally correlated noise by the steps of:

3 obtaining a block pixel average;

4 accessing a look-up table using the block pixel average and picture quantization
5 parameters to obtain weights of temporal correlation factors for weighting the added noise.

1 3. The method according to claim 2 wherein the step of accessing a look-up table
2 further comprises the step of accessing a look-up table containing Gaussian random numbers.

1 4. The method according to claim 2 wherein the step of adding temporally correlated
2 noise includes the step of adding temporally correlated noise to one of luma or chroma pixels.

1 5. The method according to claim 4 further comprising the step of adding temporally
2 correlated noise includes adding noise to both luma and chroma pixels.

6. Apparatus for reducing subjective artifacts in a video image, comprising:
 means for receiving supplemental information that includes at least one parameter that
specifies an attribute of comfort noise for addition to an image;

 means for generating the temporally correlated noise in accordance; and

 means for adding temporally correlated noise to the image to hide artifacts.

1 7 The apparatus according to claim 6 further comprising:

2 means for obtaining a block pixel average;

3 means for accessing a look-up table using the block pixel average and picture
4 quantization parameters to obtain weights of temporal correlation factors for weighting the added
5 noise.

1 8. The apparatus according to claim 6 wherein the look up contains Gaussian random
2 numbers.

1 9. The apparatus according to claim 6 wherein the means for adding temporally
2 correlated noise adds temporally correlated noise to one of luma or chroma pixels.

1 10. The apparatus according to claim 9 wherein the means for adding temporally
2 correlated noise adds temporally correlated noise to both luma and chroma pixels.